PATENT COOPERATION TREATY

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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference						
LU6155	agent's me reference	FOR FURTHER A	ACTION	See Form PCT/IPEA/416		
International application No. International filing de PCT/EP2004/014609 22.12.2004		(day/month/year)	Priority date (day/month/year) 23.12.2003			
International Patent Classification (IPC) or national classification and IPC C08F10/00, C08F4/60, C08F4/70						
Applicant						
BASELL POLYOLEFINE GMBH et al.						
 This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36. 						
2. This RE	2. This REPORT consists of a total of 5 sheets, including this cover sheet.					
	A separate and additional by status, comprising.					
a. L21	a. sent to the applicant and to the International Bureau) a total of sheets, as follows:					
sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).						
sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.						
b. □ (• •	ureau only) a total of (i	ndicate type and number	of algebrania apprior/all		
	 b. (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s)), containing a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions). 					
	box helating to Sequence	Listing (see Section 80	J2 of the Administrative In	structions).		
4. This rep	ort contains indications rel	lating to the following i	tems:			
⊠ вох	No. I Basis of the opin	nion		`		
□ Вох	No. II Priority					
		ent of opinion with rega	ard to novelty, inventive st	ep and industrial applicability		
	No. IV Lack of unity of i					
⊠ Box	applicability; cita	tions and explanations	 with regard to novelty, is supporting such statement 	nventive step or industrial ent		
□ Box				•		
_		n the international app				
LJ Box	No. VIII Certain observat	ions on the internation	al application			
Date of submission of the demand			Date of completion of this	report		
10.08.2005			22.03.2006			
Name and mailing address of the international preliminary examining authority:			Authorized Officer			
E	uropean Patent Office - P.B. 5	5818 Patentlaan 2		See the party of the last of t		
all N	L-2280 HV Rijswijk - Pays Ba el. +31 70 340 - 2040 Tx: 31 6	S	Fischer, B			
Fax: +31 70 340 - 3016			Telephone No. +31 70 340	-3769		

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/EP2004/014609

_	Box No.	I Basis of the report		
1.	. With regard to the language, this report is based on the international application in the language in which it filed, unless otherwise indicated under this item.			
	wille: □ in □ pi	report is based on translations from the original language into the following language, h is the language of a translation furnished for the purposes of: aternational search (under Rules 12.3 and 23.1(b)) sublication of the international application (under Rule 12.4) aternational preliminary examination (under Rules 55.2 and/or 55.3)		
2.	ard to the elements* of the international application, this report is based on <i>(replacement sheets whicin furnished to the receiving Office in response to an invitation under Article 14 are referred to in this "originally filed" and are not annexed to this report):</i>			
	Description	on, Pages		
	1-32	as originally filed		
	Claims, N	umbers		
	1-9	received on 10.08.2005 with letter of 10.08.2005		
	□ a seq	uence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing		
3.	☐ the ☐ the ☐ the	amendments have resulted in the cancellation of: e description, pages e claims, Nos. e drawings, sheets/figs e sequence listing (specify): by table(s) related to sequence listing (specify):		
4.	Suppleme the the the	report has been established as if (some of) the amendments annexed to this report and listed below the en made, since they have been considered to go beyond the disclosure as filed, as indicated in the intal Box (Rule 70.2(c)). The description, pages the claims, Nos. The drawings, sheets/figs the sequence listing (specify): The drawings is the disclosure as filed, as indicated in the intal Box (Rule 70.2(c)).		
	* If it	em 4 applies, some or all of these sheets may be marked "superseded "		

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/EP2004/014609

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Yes: Claims

1-7,9

No: Claims

B

Inventive step (IS)

Yes: Claims

3,4,6,7

1-9

No: Claims

1,2,5,8,9

Industrial applicability (IA)

Yes: Claims

No: Claims

2. Citations and explanations (Rule 70.7):

see separate sheet

Re Item V

Reasoned statement with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

Reference is made to the following documents:

D1: US-A-5 895 771 (EPSTEIN ET AL) 20 April 1999 (1999-04-20)

D2: US-B1-6 583 238 (GOERES MARKUS ET AL) 24 June 2003 (2003-06-24)

D3: Chem. Eur. J. 2001,7, pages 490-502(cited in the application)

1. The present application does not meet the criteria of Article 33(1) PCT, because the subject-matter of claim 8 is not new in the sense of Article 33(2) PCT.

The technical feature, that the catalyst system of present claim 8 is obtainable by the process of claim 7 can not be accepted as being suitable to establish novelty.

Novelty can only be acknowledged to a product (obtainable by a process), if the product <u>as such</u> fulfills the requirements of novelty. The products which are the subject-matter of claim 8 are not characterised by technical features, which would render novelty to these products over the ones of D1 for example.

Therefore, present claim 8, defining a product by the process for its preparation is not allowable (PCT search and preliminary examination Guidelines A5.26(1).

- 2. The present application does not meet the criteria of Article 33(1) PCT, because the subject-matter of claims1, 2, 5 and 9 does not involve an inventive step in the sense of Article 33(3) PCT.
- 2.1. The document D1 is regarded as being the closest prior art to the subject-matter of claim
- 1. The subject-matter of claim 1 differs from the catalyst system of D1 in that the aluminate anion is of formula $Al(OC(CF_3)_3)_4$ rather than $Al(OC(CH_3)(CF_3)_2)_4$ or $Al(OC(Ph)(CF_3)_2)_4$. There is no comparative example in the present application showing an effect of this

Therefore, the objective technical problem to be solved by the present invention can only be regarded as being an alternative catalyst system.

The solution proposed in claim 1 of the present application cannot be considered as involving

difference.

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (SEPARATE SHEET)

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an inventive step (Article 33(3) PCT) as the anion Al(OC(CF3)3)4- was already known from the document D3 (cited in the description of the application).

The skilled person, faced with the technical problem would therefore modify the anion present in D1 according to the teachings of D3 in order to reach the catalyst system according to present claim 1.

- 2.2. The same reasoning applies, mutatis mutandis, to the subject-matter of the corresponding independent claim 9, which therefore is also considered not inventive.
- 2.3. Dependent claims 2 and 5 do not contain any features which, in combination with the features of any claim to which they refer, meet the requirements of the PCT in respect of inventive step, see document D1 and the corresponding passages cited in the search report.
- 3. The combination of the features of dependent claims 3, 4, 6 and 7 is neither known from, nor rendered obvious by, the available prior art. The reasons are as follows: documents D1, D2 and D3 should be combined in order to arrive at the subject-matter of those claims which cannot be derived from the teachings of only two of those documents.